

### **IN THE ABSTRACT:**

Please replace the original page 13 with the accompanying replacement page 13, which includes the following rewritten paragraph beginning at page 13, line 3:

1           A system for processing the measuring signals from a sensor 12,  
2   ~~including consisting of~~ a first micro-controller 10 ~~having comprising~~ an input for  
3   the sensor data, a first memory 18, 19 and a first processor 16, and a second  
4   micro-controller 24 ~~having comprising~~ a second memory 26, 30 and a second  
5   processor 27. A bus system 22 is provided that connects the first micro-controller  
6   10 with the second micro-controller 24. The first memory 18, 19 stores data and  
7   instructions that are configured so as to be adapted to the sensor 12 and enable  
8   the conversion of the signals provided by the sensor 12 into data representing  
9   the variable to be measured. The first processor 16 ~~executes is embodied in~~  
10   ~~such a way that it can execute~~ the instructions stored in the first memory 18, and  
11   ~~thereby convert in real time the measured signals of the sensor 12 into data that~~  
12   ~~represent the measured variable, and transfers the resulting~~ transfer these data  
13   by way of the bus system 22 to the second micro-controller 24. The second  
14   memory 26, 30 stores sensor-independent data and instructions, which enable  
15   the processing, by the second microprocessor 27, of the data transferred by the  
16   bus system 22, representing the variable to be measured. ~~The second processor~~  
17   ~~27 is embodied so as to be able to execute the sensor independent instructions.~~  
18   ~~The invention is, for example, suitable for an electricity consumption meter where~~  
19   ~~the tariff rate structure can be stored in the second memory.~~